

**SAF-RC-074**  
**100-D/DR Burial Grounds & Remaining  
Sites – Soil In-Process**  
**FINAL DATA PACKAGE**

**COMPLETE COPY OF DATA PACKAGE TO:**

Kathy Wendt H4-21 KW 1/30/13  
INITIAL/DATE

## **COMMENTS:**

**SDG J01682**      **SAF RC-074**

Rad only	<input checked="" type="checkbox"/> Chem only	Rad & Chem
<input checked="" type="checkbox"/> Complete	Partial	

**Waste Site:** 100-D-100

Analytical Data Package Prepared For  
**Washington Closure Hanford**

Radiochemical Analysis By  
**TestAmerica**

**2800 G.W. Way, Richland Wa, 99354, (509)-375-3131.**

Assigned Laboratory Code: TARL

Data Package Contains 50 Pages

Report No.: 54373

Results in this report relate only to the sample(s) analyzed.

SDG No.	Order No.	Client Sample ID (List Order)	Lot-Sa No.	Work Order	Report DB ID	Batch No.
J01682	RC-074	J1RCP0	J3A280414-1	MX0R41AC	9MX0R410	3028033
		J1RCP1	J3A280414-2	MX0TC1AC	9MX0TC10	3028033
		J1RCP2	J3A280414-3	MX0TD1AC	9MX0TD10	3028033
		J1RCP3	J3A280414-4	MX0TE1AC	9MX0TE10	3028033
		J1RCP4	J3A280414-5	MX0TG1AC	9MX0TG10	3028033
		J1RCP5	J3A280414-6	MX0TJ1AC	9MX0TJ10	3028033
		J1RCP6	J3A280414-7	MX0TK1AC	9MX0TK10	3028033
		J1RCP8	J3A280414-8	MX0TL1AC	9MX0TL10	3028033
		J1RCP9	J3A280414-9	MX0TP1AC	9MX0TP10	3028033
		J1RCR0	J3A280414-10	MX0TR1AC	9MX0TR10	3028033
	RC-074	J1RCR1	J3A280414-11	MX0TW1AC	9MX0TW10	3028033
		J1RCR2	J3A280414-12	MX0T11AC	9MX0T110	3028033
		J1RCR3	J3A280414-13	MX0T31AC	9MX0T310	3028033
		J1RCR4	J3A280414-14	MX0T51AC	9MX0T510	3028033
		J1RCV2	J3A280414-15	MX0T81AC	9MX0T810	3028033
		J1RCV3	J3A280414-16	MX0VC1AC	9MX0VC10	3028033
		J1RCV4	J3A280414-17	MX0VE1AC	9MX0VE10	3028033
		J1RCV5	J3A280414-18	MX0VG1AC	9MX0VG10	3028033
		J1RCV6	J3A280414-19	MX0VJ1AC	9MX0VJ10	3028033
		J1RCV7	J3A280414-20	MX0VL1AC	9MX0VL10	3028033



THE LEADER IN ENVIRONMENTAL TESTING

### Certificate of Analysis

Washington Closure Hanford  
2620 Fermi Avenue  
Richland, WA 99354

TestAmerica Laboratories, Inc.

January 29, 2013

Attention: Joan Kessner

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SAF Number	:	RC-074
Date SDG Closed	:	January 28, 2013
Number of Samples	:	Twenty (20)
Sample Type	:	Soil
SDG Number	:	J01682
Data Deliverable	:	Quick Turn Metals / Summary

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#### CASE NARRATIVE

##### I. Introduction

On January 28, 2013, twenty soil samples were received at TestAmerica for analysis. Upon receipt, the samples were assigned the following laboratory ID numbers to correspond with the Washington Closure Hanford (WCH) specific ID;

<u>WCH ID#</u>	<u>TARL ID#</u>	<u>MATRIX</u>	<u>DATE OF RECEIPT</u>
J1RCP0	MX0R4	SOIL	1/28/13
J1RCP1	MX0TC	SOIL	1/28/13
J1RCP2	MX0TD	SOIL	1/28/13
J1RCP3	MX0TE	SOIL	1/28/13
J1RCP4	MX0TG	SOIL	1/28/13
J1RCP5	MX0TJ	SOIL	1/28/13
J1RCP6	MX0TK	SOIL	1/28/13
J1RCP8	MX0TL	SOIL	1/28/13
J1RCP9	MX0TP	SOIL	1/28/13
J1RCR0	MX0TR	SOIL	1/28/13
J1RCR1	MX0TW	SOIL	1/28/13
J1RCR2	MX0T1	SOIL	1/28/13
J1RCR3	MX0T3	SOIL	1/28/13
J1RCR4	MX0T5	SOIL	1/28/13
J1RCV2	MX0T8	SOIL	1/28/13
J1RCV3	MX0VC	SOIL	1/28/13
J1RCV4	MX0VE	SOIL	1/28/13
J1RCV5	MX0VG	SOIL	1/28/13
J1RCV6	MX0VJ	SOIL	1/28/13
J1RCV7	MX0VL	SOIL	1/28/13

Washington Closure Hanford  
January 29, 2013

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## II. Sample Receipt

The samples were received in good condition and no anomalies were noted during check-in.

## III. Analytical Results/Methodology

The analytical results for this report are presented by laboratory sample ID. Each set of data includes sample identification information, analytical results and the appropriate associated statistical errors. The requested analyses were:

### **ICP Metals**

ICP Metals by method SW-846 6010A

### **Chemical Analysis**

Hexavalent Chromium by EPA method 7196A

## IV. Quality Control

SDG J01682 includes a minimum of one Laboratory Control Samples (LCS), one method (reagent) blank, a duplicate sample, matrix spike sample and a matrix spike duplicate sample. Any exceptions have been noted in the "Comments" section.

Blanks and LCS are reported in mg/L units, other QC and sample results are reported in the same units.

## V. Comments

### **ICP Metals**

#### ICP Metals by method SW-846 6010A

One batch was analyzed for the samples with the standard metal request list.

#### Batch 3028034:

The LCS, batch blank, samples, sample duplicate, MS, MSD, ICB, ICV, CCB and CCV results are within contractual limits.

### **Chemical Analysis**

#### Hexavalent Chromium by EPA method 7196A

One batch was analyzed.

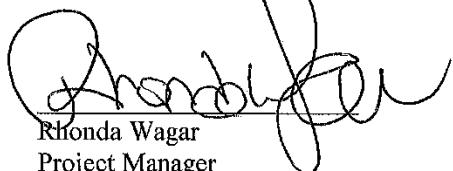
#### Batch 3028033:

The LCS, batch blank, samples, sample duplicate (J1RCP0) and sample matrix spike (J1RCP0) results are within contractual requirements.

I certify that this Certificate of Analysis is in compliance with the SOW, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the Laboratory Manager, or a designee as verified by the following signature.

Washington Closure Hanford  
January 29, 2013

Reviewed and approved:

A handwritten signature in black ink, appearing to read "Rhonda Wagar".

Rhonda Wagar  
Project Manager

## Drinking Water Method Cross References

DRINKING WATER ASTM METHOD CROSS REFERENCES		
Referenced Method	Isotope(s)	TestAmerica Richland's SOP No.
EPA 901.1	Cs-134, I-131	RL-GAM-001
EPA 900.0	Alpha & Beta	RL-GPC-001
EPA 00-02	Gross Alpha (Coprecipitation)	RL-GPC-002
EPA 903.0	Total Alpha Radium (Ra-226)	RL-RA-002
EPA 903.1	Ra-226	RL-RA-001
EPA 904.0	Ra-228	RL-RA-001
EPA 905.0	Sr-89/90	RL-GPC-003
ASTM D5174	Uranium	RL-KPA-003
EPA 906.0	Tritium	RL-LSC-005

**Results in this report relate only to the sample(s) analyzed.**

### Uncertainty Estimation

TestAmerica Richland has adopted the internationally accepted approach to estimating uncertainties described in "NIST Technical Note 1297, 1994 Edition". The approach, "Law of Propagation of Errors", involves the identification of all variables in an analytical method which are used to derive a result. These variables are related to the analytical result (R) by some functional relationship,  $R = \text{constants} * f(x,y,z,...)$ . The components (x,y,z) are evaluated to determine their contribution to the overall method uncertainty. The individual component uncertainties ( $u_i$ ) are then combined using a statistical model that provides the most probable overall uncertainty value. All component uncertainties are categorized as type A, evaluated by statistical methods, or type B, evaluated by other means. Uncertainties not included in the components, such as sample homogeneity, are combined with the component uncertainty as the square root of the sum-of-the-squares of the individual uncertainties. The uncertainty associated with the derived result is the combined uncertainty ( $u_c$ ) multiplied by the coverage factor (1,2, or 3).

When three or more sample replicates are used to derive the analytical result, the type A uncertainty is the standard deviation of the mean value ( $S/\sqrt{n}$ ), where S is the standard deviation of the derived results. The type B uncertainties are all other random or non-random components that are not included in the standard deviation.

The derivation of the general "Law of Propagation of Errors" equations and specific example are available on request.

## Report Definitions

<b>Action Lev</b>	An agreed upon activity level used to trigger some action when the final result is greater than or equal to the Action Level. Often the Action Level is related to the Decision Limit.
<b>Batch</b>	The QC preparation batch number that relates laboratory samples to QC samples that were prepared and analyzed together.
<b>Bias</b>	Defined by the equation (Result/Expected)-1 as defined by ANSI N13.30.
<b>COC No</b>	Chain of Custody Number assigned by the Client or TestAmerica.
<b>Count Error (#s)</b>	Poisson counting statistics of the gross sample count and background. The uncertainty is absolute and in the same units as the result. For Liquid Scintillation Counting (LSC) the batch blank count is the background.
<b>Total Uncert (#s) <i>u<sub>c</sub>-Combined Uncertainty.</i></b>	All known uncertainties associated with the preparation and analysis of the sample are propagated to give a measure of the uncertainty associated with the result, <i>u<sub>c</sub> the combined uncertainty</i> . The uncertainty is absolute and in the same units as the result.
<b>(#s), Coverage Factor</b>	The coverage factor defines the width of the confidence interval, 1, 2 or 3 standard deviations.
<b>CRDL (RL)</b>	Contractual Required Detection Limit as defined in the Client's Statement Of Work or TestAmerica "default" nominal detection limit. Often referred to the reporting level (RL)
<b>Lc</b>	Decision Level based on instrument background or blank, adjusted by the Efficiency, Chemical Yield, and Volume associated with the sample. The Type I error probability is approximately 5%. $Lc = (1.645 * \sqrt{2 * (\text{BkgndCnt} / \text{BkgndCntMin}) / \text{SCntMin}}) * (\text{ConvFct} / (\text{Eff} * \text{Yld} * \text{Abn} * \text{Vol})) * \text{IngrFct}$ . For LSC methods the batch blank is used as a measure of the background variability. Lc cannot be calculated when the background count is zero.
<b>Lot-Sample No</b>	The number assigned by the LIMS software to track samples received on the same day for a given client. The sample number is a sequential number assigned to each sample in the Lot.
<b>MDC MDA</b>	Detection Level based on instrument background or blank, adjusted by the Efficiency, Chemical Yield, and Volume with a Type I and II error probability of approximately 5%. $MDC = (4.65 * \sqrt{(\text{BkgndCnt} / \text{BkgndCntMin}) / \text{SCntMin}}) + 2.71 / \text{SCntMin} * (\text{ConvFct} / (\text{Eff} * \text{Yld} * \text{Abn} * \text{Vol})) * \text{IngrFct}$ . For LSC methods the batch blank is used as a measure of the background variability.
<b>Primary Detector</b>	The instrument identifier associated with the analysis of the sample aliquot.
<b>Ratio U-234/U-238</b>	The U-234 result divided by the U-238 result. The U-234/U-238 ratio for natural uranium in NIST SRM 4321C is 1.038.
<b>Rst/MDC</b>	Ratio of the Result to the MDC. A value greater than 1 may indicate activity above background at a high level of confidence. Caution should be used when applying this factor and it should be used in concert with the qualifiers associated with the result.
<b>Rst/TotUcert</b>	Ratio of the Result to the Total Uncertainty. If the uncertainty has a coverage factor of 2 a value greater than 1 may indicate activity above background at approximately the 95% level of confidence assuming a two-sided confidence interval. Caution should be used when applying this factor and it should be used in concert with the qualifiers associated with the result.
<b>Report DB No</b>	Sample Identifier used by the report system. The number is based upon the first five digits of the <b>Work Order Number</b> .
<b>RER</b>	The equation Replicate Error Ratio = $(S - D) / [\sqrt{TPUs^2 + TPUsd^2}]$ as defined by ICPT BOA where S is the original sample result, D is the result of the duplicate, TPUs is the total uncertainty of the original sample and TPUsd is the total uncertainty of the duplicate sample.
<b>SDG</b>	Sample Delivery Group Number assigned by the Client or assigned by TestAmerica upon sample receipt.
<b>Sum Rpt Alpha Spec Rst(s)</b>	The sum of the reported alpha spec results for tests derived from the same sample excluding duplicate result where the results are in the same units.
<b>Work Order</b>	The LIMS software assign test specific identifier.
<b>Yield</b>	The recovery of the tracer added to the sample such as Pu-242 used to trace a Pu-239/40 method.

**Sample Results Summary**

Date: 29-Jan-13

**TestAmerica TARL**

Ordered by Method, Batch No., Client Sample ID.

**Report No. : 54373**

**SDG No: J01682**

Client Id Batch	Work Order	Parameter	Result +/- Uncertainty ( 2s)	Qual	Units	Tracer Yield	MDL	CRDL	RPD
<b>3028033 7196_CR6</b>									
J1RCP0	MX0R41AC	HEXCHROME	5.86E-01	+ - 0.0E+00	mg/kg	N/A	1.55E-01	1.55E-01	
	MX0R41AM	HEXCHROME	5.85E-01	+ - 0.0E+00	mg/kg	N/A	1.55E-01	3.50E-01	0.2
J1RCP1	MX0TC1AC	HEXCHROME	6.58E-01	+ - 0.0E+00	mg/kg	N/A	1.55E-01	1.55E-01	
J1RCP2	MX0TD1AC	HEXCHROME	6.80E-01	+ - 0.0E+00	mg/kg	N/A	1.55E-01	1.55E-01	
J1RCP3	MX0TE1AC	HEXCHROME	5.44E-01	+ - 0.0E+00	mg/kg	N/A	1.55E-01	1.55E-01	
J1RCP4	MX0TG1AC	HEXCHROME	3.65E-01	+ - 0.0E+00	mg/kg	N/A	1.55E-01	1.55E-01	
J1RCP5	MX0TJ1AC	HEXCHROME	6.78E-01	+ - 0.0E+00	mg/kg	N/A	1.55E-01	1.55E-01	
J1RCP6	MX0TK1AC	HEXCHROME	4.95E-01	+ - 0.0E+00	mg/kg	N/A	1.55E-01	1.55E-01	
J1RCP8	MX0TL1AC	HEXCHROME	4.71E-01	+ - 0.0E+00	mg/kg	N/A	1.55E-01	1.55E-01	
J1RCP9	MX0TP1AC	HEXCHROME	3.64E-01	+ - 0.0E+00	mg/kg	N/A	1.55E-01	1.55E-01	
J1RCR0	MX0TR1AC	HEXCHROME	3.47E-01	+ - 0.0E+00	mg/kg	N/A	1.55E-01	1.55E-01	
J1RCR1	MX0TW1AC	HEXCHROME	2.87E-01	+ - 0.0E+00	mg/kg	N/A	1.55E-01	1.55E-01	
J1RCR2	MX0T11AC	HEXCHROME	4.29E-01	+ - 0.0E+00	mg/kg	N/A	1.55E-01	1.55E-01	
J1RCR3	MX0T31AC	HEXCHROME	4.68E-01	+ - 0.0E+00	mg/kg	N/A	1.55E-01	1.55E-01	
J1RCR4	MX0T51AC	HEXCHROME	4.24E-01	+ - 0.0E+00	mg/kg	N/A	1.55E-01	1.55E-01	
J1RCV2	MX0T81AC	HEXCHROME	3.64E-01	+ - 0.0E+00	mg/kg	N/A	1.55E-01	1.55E-01	
J1RCV3	MX0VC1AC	HEXCHROME	3.11E-01	+ - 0.0E+00	mg/kg	N/A	1.55E-01	1.55E-01	
J1RCV4	MX0VE1AC	HEXCHROME	3.23E-01	+ - 0.0E+00	mg/kg	N/A	1.55E-01	1.55E-01	
J1RCV5	MX0VG1AC	HEXCHROME	3.47E-01	+ - 0.0E+00	mg/kg	N/A	1.55E-01	1.55E-01	
J1RCV6	MX0VJ1AC	HEXCHROME	4.58E-01	+ - 0.0E+00	mg/kg	N/A	1.55E-01	1.55E-01	

TestAmerica RPD - Relative Percent Difference.

rptSTLRchSaSum  
mary2 V5.2.23  
A2002

**Sample Results Summary**

Date: 29-Jan-13

**TestAmerica TARL**

Ordered by Method, Batch No., Client Sample ID.

**Report No. : 54373****SDG No: J01682**

Client Id Batch	Work Order	Parameter	Result +- Uncertainty ( 2s)	Qual	Units	Tracer Yield	MDL	CRDL	RPD
3028033 7196_CR6									
J1RCV7	MX0VL1AC	HEXCHROME	6.33E-01 +- 0.0E+00		mg/kg	N/A	1.55E-01	1.55E-01	
No. of Results: 21									

TestAmerica RPD - Relative Percent Difference.

rptSTLRchSaSum  
mary2 V5.2.23  
A2002

**QC Results Summary**  
**TestAmerica TARL**  
 Ordered by Method, Batch No, QC Type,.

Date: 29-Jan-13

Report No. : 54373

SDG No.: J01682

Batch	Work Order	Parameter	Result +- Uncertainty ( 2s)	Qual	Units	Tracer Yield	LCS Recovery	Bias	MDL
<b>7196_CR6</b>									
3028033	MATRIX SPIKE, J1RCP0								
MX0R41AL	HEXCHROME		1.19E+01 +- 0.0E+00		mg/kg	N/A	82%	-0.2	1.55E-01
3028033	LCS,								
MX0WX1AC	HEXCHROME		1.81E+01 +- 0.0E+00		mg/kg	N/A	95%	0.0	1.55E-01
3028033	BLANK QC,								
MX0WX1AA	HEXCHROME		1.55E-01 +- 0.0E+00	U	mg/kg	N/A			1.55E-01
<b>No. of Results: 3</b>									

TestAmerica	Bias - (Result/Expected)-1 as defined by ANSI N13.30.
rptSTLRchQcSum mary V5.2.23 A2002	U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda/Mdl, Total Uncert, CRDL, RDL or not identified by gamma scan software.

**FORM I**  
**SAMPLE RESULTS**

Date: 29-Jan-13

**Lab Name:** TestAmerica  
**Lot-Sample No.:** J3A280414-1  
**Client Sample ID:** J1RCP0

**SDG:** J01682  
**Report No. :** 54373  
**COC No. :** RC-074-452

**Collection Date:** 1/25/2013 8:18:00 AM  
**Received Date:** 1/28/2013 8:45:00 AM  
**Matrix:** SOIL

Parameter	Result	Count	Total	MDL,	Rpt Unit,	Yield	Rst/MDL,	Analysis,	Total Sa	Aliquot	Primary
		Qual	Error (2 s)	Action Lev	L.c	CRDL(RL)	Rst/TotUncrt	Prep Date	Size	Size	Detector
Batch: 3028033	7196_CR6		Work Order: MX0R41AC			Report DB ID: 9MX0R410					
HEXCHROME	5.86E-01	0.0E+00	1.55E-01	mg/kg	N/A	(3.8)	1/28/13 02:00 p	2.5007			

No. of Results: 1      Comments:

**FORM I**  
**SAMPLE RESULTS**

Date: 29-Jan-13

**Lab Name:** TestAmerica  
**Lot-Sample No.:** J3A280414-2  
**Client Sample ID:** J1RCP1

**SDG:** J01682  
**Report No. :** 54373  
**COC No. :** RC-074-452

**Collection Date:** 1/25/2013 8:15:00 AM  
**Received Date:** 1/28/2013 8:45:00 AM  
**Matrix:** SOIL

Parameter	Result	Count	Total	MDL,	Rpt Unit,	Yield	Rst/MDL,	Analysis,	Total Sa	Aliquot	Primary
		Qual	Error (2 s)	Action Lev	Lc	CRDL(RL)	Rst/Tot/Ucert	Prep Date	Size	Size	Detector
Batch: 3028033	7196 CR6		Work Order: MX0TC1AC			Report DB ID: 9MX0TC10					
HEXCHROME	6.58E-01	0.0E+00	1.55E-01	mg/kg	N/A	(4.2)	1/28/13 02:00 p		2.5051		

No. of Results: 1      Comments:

**FORM I**  
**SAMPLE RESULTS**

Date: 29-Jan-13

**Lab Name:** TestAmerica  
**Lot-Sample No.:** J3A280414-3  
**Client Sample ID:** J1RCP2

**SDG:** J01682  
**Report No. :** 54373  
**COC No. :** RC-074-452

**Collection Date:** 1/25/2013 8:14:00 AM  
**Received Date:** 1/28/2013 8:45:00 AM  
**Matrix:** SOIL

Parameter	Result	Count	Total	MDL, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDL, Rst/TotUser	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 3028033	7196 CR6			MX0TD1AC		Report DB ID: 9MX0TD10					
HEXCHROME	6.80E-01	0.0E+00	1.55E-01	mg/kg	N/A	(4.4)	1/28/13 02:00 p	2.4949	9		

No. of Results: 1      Comments:

**FORM I**  
**SAMPLE RESULTS**

**Date:** 29-Jan-13

**Lab Name:** TestAmerica  
**Lot-Sample No.:** J3A280414-4  
**Client Sample ID:** J1RCP3

**SDG:** J01682  
**Report No. :** 54373  
**COC No. :** RC-074-452

**Collection Date:** 1/25/2013 8:26:00 AM  
**Received Date:** 1/28/2013 8:45:00 AM  
**Matrix:** SOIL

Parameter	Result	Count	Total	Rpt Unit,	Yield	Analysis,	Total Sa	Aliquot	Primary
		Qual	Uncert(2 s)	Lc	CRDL(RL)	Rst/Tot/Ucert	Size	Size	Detector
Batch: 3028033	7196_CRF6		Work Order: MX0TE1AC		Report DB ID: 9MX0TE10				
HEXCHROME	5.44E-01	0.0E+00	1.55E-01	mg/kg	N/A	(3.5)	1/28/13 02:00 p	2.5054	

No. of Results: 1      Comments:

**FORM I**  
**SAMPLE RESULTS**

Date: 29-Jan-13

**Lab Name:** TestAmerica  
**Lot-Sample No.:** J3A280414-5  
**Client Sample ID:** J1RCP4

**SDG:** J01682  
**Report No. :** 54373  
**COC No. :** RC-074-452

**Collection Date:** 1/25/2013 8:22:00 AM  
**Received Date:** 1/28/2013 8:45:00 AM  
**Matrix:** SOIL

Parameter	Result	Count	Total	MDL, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDL, Rst/TotUncert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 3028033	7196 CR6	Work Order: MX0TG1AC	Report DB ID: 9MX0TG10								
HEXCROME	3.65E-01	0.0E+00	1.55E-01	mg/kg	N/A	(2.4)	1/28/13 02:00 p	2.5001			g

No. of Results: 1      Comments:

**FORM I**  
**SAMPLE RESULTS**

Date: 29-Jan-13

**Lab Name:** TestAmerica  
**Lot-Sample No.:** J3A280414-6  
**Client Sample ID:** J1RCP5

**SDG:** J01682  
**Report No. :** 54373  
**COC No. :** RC-074-452

**Collection Date:** 1/25/2013 8:21:00 AM  
**Received Date:** 1/28/2013 8:45:00 AM  
**Matrix:** SOIL

Parameter	Result	Count	Total	MDL,	Rpt Unit,	Yield	Analysis,	Total Sa	Aliquot	Primary
	Qual	Error (2 s)	Uncert(2 s)	Action Lev	Lc	CRDL(RL)	Rst/TotUcert	Size	Size	Detector
Batch: 3028033	7196 CR6	Work Order: MX0TJ1AC	Report DB ID: 9MX0TJ10							
HEXCHROME	6.78E-01	0.0E+00	1.55E-01	mg/kg	N/A	(4.4)	1/28/13 02:00 p	2.4939		
					1.55E-01	N/A				g

No. of Results: 1      Comments:

**FORM I**  
**SAMPLE RESULTS**

**Date:** 29-Jan-13

**Lab Name:** TestAmerica  
**Lot-Sample No.:** J3A280414-7  
**Client Sample ID:** J1RCP6

**SDG:** J01682  
**Report No.:** 54373  
**COC No.:** RC-074-452

**Collection Date:** 1/25/2013 8:18:00 AM  
**Received Date:** 1/28/2013 8:45:00 AM  
**Matrix:** SOIL

Parameter	Result	Qual	Count	Total	MDL,	Rpt Unit,	Yield	Rst/MDL,	Analysis,	Total Sa	Aliquot	Primary
			Error ( 2 s)	Uncert(2 s)	Action Lev	Lc	CRDL(RL)	Rst/TotUncert	Prep Date	Size	Size	Detector
Batch: 3028033	7196 CR6			Work Order: MX0TK1AC		Report DB ID: 9MX0TK10						
HEXCHROME	4.95E-01	0.0E+00	1.55E-01	mg/kg	N/A	(3.2)	1/28/13 02:00 p	2.4999		g		

No. of Results: 1      Comments:

**FORM I**  
**SAMPLE RESULTS**

Date: 29-Jan-13

**Lab Name:** TestAmerica  
**Lot-Sample No.:** J3A280414-8  
**Client Sample ID:** J1RCP8

Parameter	Result	Count	Total	MDL,	Rpt Unit,	Yield	Rst/MDL,	Analysis,	Total Sa	Aliquot	Primary
		Qual	Error (2 s)	Action Lev	Lc	CRDL(RL)	Rst/TotUncert	Prep Date	Size	Size	Detector
Batch: 3028033	7196 CR6		Work Order: MX07L1AC			Report DB ID: 9MX07L10					
HEXCHROME	4.71E-01	0.0E+00	1.55E-01	mg/kg	N/A	(3.)	1/28/13 02:00 p				
					1.55E-01	N/A					
No. of Results:	1	Comments:									

**FORM I**  
**SAMPLE RESULTS**

Date: 29-Jan-13

Lab Name: TestAmerica  
 Lot-Sample No.: J3A280414-9  
 Client Sample ID: J1RCP9

SDG: J01682  
 Report No.: 54373  
 COC No.: RC-074-452

Collection Date: 1/25/2013 8:32:00 AM  
 Received Date: 1/28/2013 8:45:00 AM  
 Matrix: SOIL

Parameter	Result	Count	Total	MDL, Action Lev	Rpt Unit, L.C	Yield CRDL(RL)	Rst/MDL, Rst/TotUncrt	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 3028033	7196_CRG	Work Order:	MX0TP1AC	MX0TP1AC	mg/kg	Report DB ID: 9MX0TP10					
HEXCHROME	3.64E-01	0.0E+00	1.55E-01	N/A	(2.3)	1/28/13 02:00 p	2.507				

No. of Results: 1      Comments:

**FORM I**  
**SAMPLE RESULTS**

Date: 29-Jan-13

Lab Name: TestAmerica  
 Lot-Sample No.: J3A280414-10  
 Client Sample ID: J1RCR0

Parameter	Result	Count	Total	MDL, Action Lev	Rpt Unit, L.C	Yield	Rst/MDL, Rst/TotUncert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 3028033	7196 CR6	0.0E+00	Work Order: MX0TR1AC	1.55E-01	mg/kg	N/A	Report DB ID: 9MX0TR10	1/28/13 02:00 p	2.4929	g	
HEXCHROME	3.47E-01					1.55E-01	(2.2)				

No. of Results: 1      Comments:

**FORM I**  
**SAMPLE RESULTS**

**Date:** 29-Jan-13

**Lab Name:** TestAmerica  
**Lot-Sample No.:** J3A280414-11  
**Client Sample ID:** J1RCR1

Parameter	Result	Qual	Count	Total	MDL, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDL, Rst/TotUncert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 3028033	7196 CRG				Work Order: MX07W1AC		Report DB ID: 9MX07W10					
HEXCHROME	2.87E-01	0.0E+00	1.55E-01	mg/kg		N/A	(1.9)		1/28/13 02:00 p	2.5009	g	

No. of Results: 1      Comments:

**FORM I**  
**SAMPLE RESULTS**

Date: 29-Jan-13

**Lab Name:** TestAmerica  
**Lot-Sample No.:** J3A280414-12  
**Client Sample ID:** J1RGR2

Parameter	Result	Count	Total	MDL, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDL, Rst/TotUncert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 3028033	7196 CR6		Work Order: MX0T11AC				Report DB ID: 9MX0T110				
HEXCROME	4.29E-01	0.0E+00	1.55E-01	mg/kg	N/A	(2.8)	1/28/13 02:00 p	2.5013	N/A	g	

No. of Results: 1      Comments:

**FORM I**  
**SAMPLE RESULTS**

**Date:** 29-Jan-13

**Lab Name:** TestAmerica  
**Lot-Sample No.:** J3A280414-13  
**Client Sample ID:** J1RCR3

**SDG:** J01682  
**Report No. :** 54373  
**COC No. :** RC-074-452

**Collection Date:** 1/25/2013 8:39:00 AM  
**Received Date:** 1/28/2013 8:45:00 AM  
**Matrix:** SOIL

Parameter	Result	Qual	Count	Total	MDL, Action Lev	Rpt Unit, Lc	Yield	Rst/MDL, Rst/TotUncert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 3028033	7196 CR6				MX0T31AC		Report DB ID: 9MX0T310					
HEXCHROME	4.68E-01	0.0E+00	1.55E-01	mg/kg	N/A	N/A	(3.)	1/28/13 02:00 p		2.497	g	

No. of Results: 1      Comments:

**FORM I**  
**SAMPLE RESULTS**

Date: 29-Jan-13

**Lab Name:** TestAmerica  
**Lot-Sample No.:** J3A280414-14  
**Client Sample ID:** J1RCR4

**SDG:** J01682  
**Report No. :** 54373  
**COC No. :** RC-074-452

**Collection Date:** 1/25/2013 8:38:00 AM

**Received Date:** 1/28/2013 8:45:00 AM

**Matrix:** SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Count	Total	MDL, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDL, Rst/TotUncert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 3028033	7196 CR6	Work Order: MX0T51AC					Report DB ID: 9MX0T510				
HEXCHROME	4.24E-01	0.0E+00	1.55E-01	mg/kg		N/A	(2.7)	1/28/13 02:00 p	2.5095	g	

No. of Results: 1      Comments:

**FORM I**  
**SAMPLE RESULTS**

**Date:** 29-Jan-13

**Lab Name:** TestAmerica  
**Lot-Sample No.:** J3A280414-15  
**Client Sample ID:** J1RCV2

**SDG:** J01682  
**Report No. :** 54373  
**COC No. :** RC-074-455

**Collection Date:** 1/25/2013 8:52:00 AM  
**Received Date:** 1/28/2013 8:45:00 AM  
**Matrix:** Soil

Parameter	Result	Count	Error (2 s)	Total	MDL <sub>a</sub>	Action Lev	Rpt Unit, Lc	Yield	Rst/MDL <sub>a</sub>	Analysis,	Total Sa Size	Aliquot Size	Primary Detector
Batch: 3028033 HEXCHROME	7196 CR6	3.64E-01		0.0E+00	1.55E-01	mg/kg	Report DB ID: 9MX0T810	N/A	(2.3)	1/28/13 02:00 p	2.4986	g	

No. of Results: 1      Comments:

**FORM I**  
**SAMPLE RESULTS**

**Date:** 29-Jan-13

**Lab Name:** TestAmerica  
**Lot-Sample No.:** J3A280414-16  
**Client Sample ID:** J1RCV3

**SDG:** J01682  
**Report No. :** 54373  
**COC No. :** RC-074-455

**Collection Date:** 1/25/2013 8:58:00 AM  
**Received Date:** 1/28/2013 8:45:00 AM  
**Matrix:** SOIL  
**Ordered by Client Sample ID, Batch No.**

Parameter	Result	Count	Total	MDL, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDL, Rst/TotUser	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 3028033	7196_CR6	Work Order: MX0VC1AC				Report DB ID: 9MX0VC10					
HEXCHROME	3.11E-01	0.0E+00	1.55E-01	mg/kg	N/A	(2.)	1/28/13 02:00 p	2.503			

**No. of Results:** 1      **Comments:**

**FORM I**  
**SAMPLE RESULTS**

Date: 29-Jan-13

**Lab Name:** TestAmerica  
**Lot-Sample No.:** J3A280414-17  
**Client Sample ID:** J1RCV4

**SDG:** J01682  
**Report No. :** 54373  
**COC No. :** RC-074-455

Parameter	Result	Count	Total	MDL,	Rpt Unit,	Yield	Rst/MDL,	Analysis,	Total Sa	Aliquot	Primary
		Error (2 s)	Uncert(2 s)	Action Lev	Lc	CRDL(RL)	Rst/TotUncrt	Prep Date	Size	Size	Detector
Batch: 3028033	7196 CR6		Work Order: MX0VE1AC			Report DB ID: 9MX0VE10					
HEXCHROME	3.23E-01	0.0E+00	0.55E-01	mg/kg	N/A	(2.1)	1/28/13 02:00 p		2.5064		g

No. of Results: 1      Comments:

**FORM I**  
**SAMPLE RESULTS**

Date: 29-Jan-13

**Lab Name:** TestAmerica  
**Lot-Sample No.:** J3A280414-18  
**Client Sample ID:** J1RCV5

Parameter	Result	Count	Total	MDL,	Rpt Unit,	Yield	Rst/MDL,	Analysis,	Total Sa	Aliquot	Primary
		Qual	Error (2 s)	Action Lev	Lc	CRDL(RL)	Rst/TotUncert	Prep Date	Size	Size	Detector
Batch: 3028033	7196 CR6		Work Order: MX0VG1AC			Report DB ID: 9MX0VG10					
HEXCHROME	3.47E-01	0.0E+00	1.55E-01	mg/kg	N/A	(2.2)	1/28/13 02:00 p	2.4919			
					1.55E-01	N/A					g

No. of Results: 1      Comments:

**FORM I**  
**SAMPLE RESULTS**

Date: 29-Jan-13

**Lab Name:** TestAmerica  
**Lot-Sample No.:** J3A280414-19  
**Client Sample ID:** J1RCV6

**SDG:** J01682  
**Report No.:** 54373  
**COC No.:** RC-074-455

**Collection Date:** 1/25/2013 9:13:00 AM  
**Received Date:** 1/28/2013 8:45:00 AM  
**Matrix:** SOLL

Parameter	Result	Count	Total	MDL,	Rpt Unit,	Yield	Rst/MDL,	Analysis,	Total Sa	Aliquot	Primary
		Qual	Error (2 s)	Action Lev	Lc	CRDL(RL)	Rst/TotUncrt	Prep Date	Size	Size	Detector
Batch: 3028033	7196_CR6		Work Order: MXOVJ1AC			Report DB ID: 9MXOVJ10					
HEXCHROME	4.58E-01	0.0E+00	1.55E-01	mg/kg	N/A	(3.)	1/28/13 02:00 p	2.4997	g	N/A	

No. of Results: 1      Comments:

**FORM I**  
**SAMPLE RESULTS**

**Date:** 29-Jan-13

**Lab Name:** TestAmerica  
**Lot-Sample No.:** J3A280414-20  
**Client Sample ID:** J1RCV7

Parameter	Result	Qual	Count	Total	MDL, Action Lev	Rpt Unit, Lc	Yield	Rst/MDL, Rst/TotUser	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 3028033	7196 CR6			Work Order: MX0VL1AC			Report DB ID: 9MX0VL10					
HEXCHROME	6.33E-01			0.0E+00	1.55E-01	mg/kg	N/A	(4.1)	1/28/13 02:00 p	2.4991	g	

No. of Results: 1      Comments:

**FORM II**

Date: 29-Jan-13

**DUPLICATE RESULTS**

**Lab Name:** TestAmerica  
**Lot-Sample No.:** J3A280414-1  
**Client Sample ID:** J1RCP0

Parameter	Result, Orig Rst	Qual	Count	Total Uncert(2 s)	MDL, Action Lev	Rpt Unit, CRDL	Rst/MDL, Yield	Rst/TotUncrt	Report DB ID: MX0R41AM	Rst/MDL, Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 3028033	7196_CR6			Work Order: 0.0E+00	MX0R41AM				Report DB ID: MX0R41ER	Orig Sa DB ID: 9MX0R410			
HEXCHROME	5.85E-01			0.0E+00	1.55E-01	mg/kg	N/A	(3.8)	1/28/13 02:00 p		2.5088		
	5.86E-01			RPD 0.2	3.50E-01		N/A	N/A			g		

No. of Results: 1      Comments:

Date: 29-Jan-13

**FORM II**  
**BLANK RESULTS**

Lab Name: TestAmerica  
Matrix: SOIL

Parameter	Result	Qual	Count	Total	MDL, Lc	Rpt Unit, CRDL	Rst/MDL, Rst/TotUncert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 3028033	7196_CR6		Work Order: MX0WX1AA			Report DB ID: MX0WX1AB					
HEXCHROME	1.55E-01	U	0.0E+00	1.55E-01	mg/kg	N/A	1.	1/28/13 02:00 p	2.5	g	

No. of Results: 1      Comments:

Date: 29-Jan-13

**FORM II**  
**LCS RESULTS**

Lab Name: TestAmerica  
Matrix: SOIL

SDG: J01682  
Report No. : 54373

Parameter	Result	Count	Total	Report	Expected	Recovery,	Aliquot	Primary
		Qual	Uncert(2 s)	Unit	Uncert	Bias	Size	Detector
Batch: 3028033	7196_CR6			Work Order: MX0WX1AC				
HEXCHROME	1.81E+01	0.0E+00	1.55E-01	mg/kg	N/A	1.90E+01	1/28/13 02:00 p	25

No. of Results: 1      Comments:

TestAmerica      Bias      - (Result/Expected)-1 as defined by ANSI N13.30.  
rpSTLrchLcs  
V5.2.23 A2002

**FORM II**  
**MATRIX SPIKE RESULTS**

Date: 29-Jan-13

Lab Name: TestAmerica  
 Lot-Sample No.: J3A280414-1, J1RCP0

SDG: J01682  
 Report No.: 54373

Parameter	SpikeResult, Orig Rst	Count	Total	Rpt Unit, CRDL	Rec- over	Expected, Uncert	Analysis, Prep Date	Aliquot Size	Analy Method, Primary Detector
Batch: 3028033	Work Order: MX0R41AL		Report DB ID: MX0R41CW	Orig Sa DB ID: 9MX0R410					
HEXCHROME	1.19E+01	0.0E+00	1.55E-01 mg/kg	N/A	81.95%	1.45E+01	1/28/13 02:00 p	5.4949	7196_CR6
	5.86E-01							g	

Number of Results: 1

Comments:

TestAmerica RER - Replicate Error Ratio =  $(S_D)/[\sqrt{(\sum(TPUs)+\sum(TPUs))}]$  as defined by ICPT BOA.  
 rpt\$TRLchMs Bias - (Result/Expected)-1 as defined by ANSI N13.30.  
 V5.2.3 A2002

Client_id	Result_Cas_nbr	Parameter	Result	Qualifier	Units	Reporting_Limits_SReporting_Limits	Analyzed_sAnalysis	Decision_Level_ic	LCSReccAddOnAnalysis_date_time	Batch_nbr	Test_MetLab_sample_id
J1RCP0	SOIL CS	7440-22-4	Ag	1.44E+01 U	UG/G	1.00E+01	1.70E-01	0.2496 G	1/28/2013 18:58	3028034 46DQ	MX0R1A0
J1RCP0	SOIL CS	7440-38-3	As	7.12E+01	UG/G	1.00E+01	6.20E+02	0.2496 G	1/28/2013 18:58	3028034 46DQ	MX0R1A0
J1RCP0	SOIL CS	7440-38-3	Ba	2.00E+00	UG/G	2.00E+00	2.20E+01	0.2496 G	1/28/2013 18:58	3028034 46DQ	MX0R1A0
J1RCP0	SOIL CS	7440-41-7	Beryllium	2.24E+01	UG/G	1.00E+01	1.00E+01	0.2496 G	1/28/2013 18:58	3028034 46DQ	MX0R1A0
J1RCP0	SOIL CS	7440-43-9	Cadmium	1.25E+01 U	UG/G	2.00E+00	2.00E+02	0.2496 G	1/28/2013 18:58	3028034 46DQ	MX0R1A0
J1RCP0	SOIL CS	7440-47-3	Chromium	7.50E+00 U	UG/G	1.00E+01	1.00E+01	0.2496 G	1/28/2013 18:58	3028034 46DQ	MX0R1A0
J1RCP0	SOIL CS	7439-92-1	Lead	3.21E+00 U	UG/G	1.00E+01	1.50E+01	0.2496 G	1/28/2013 18:58	3028034 46DQ	MX0R1A0
J1RCP0	SOIL CS	7782-49-2	Se	-4.78E+01 U	UG/G	1.00E+01	1.00E+01	0.2496 G	1/28/2013 18:58	3028034 46DQ	MX0R1A0
J1RCP1	SOIL CS	7440-22-4	Ag	2.08E+01 U	UG/G	1.00E+01	4.30E+02	0.2489 G	1/28/2013 18:58	3028034 46DQ	MX0T1AA
J1RCP1	SOIL CS	7440-38-3	As	7.12E+01	UG/G	1.00E+01	1.00E+01	0.2489 G	1/28/2013 18:58	3028034 46DQ	MX0T1AA
J1RCP1	SOIL CS	7440-38-3	Ba	6.52E+00	UG/G	2.01E+00	2.70E+01	0.2489 G	1/28/2013 18:58	3028034 46DQ	MX0T1AA
J1RCP1	SOIL CS	7440-41-7	Beryllium	1.90E+01	UG/G	1.00E+01	5.40E+03	0.2488 G	1/28/2013 18:58	3028034 46DQ	MX0T1AA
J1RCP1	SOIL CS	7440-43-9	Cadmium	1.42E+01 U	UG/G	2.01E+00	2.02E+00	0.2488 G	1/28/2013 18:58	3028034 46DQ	MX0T1AA
J1RCP1	SOIL CS	7440-47-3	Chromium	7.37E+00 U	UG/G	1.00E+01	1.00E+01	0.2488 G	1/28/2013 18:58	3028034 46DQ	MX0T1AA
J1RCP1	SOIL CS	7439-92-1	Lead	2.98E+00 U	UG/G	1.00E+01	1.00E+01	0.2488 G	1/28/2013 18:58	3028034 46DQ	MX0T1AA
J1RCP1	SOIL CS	7782-49-2	Se	7.57E+01 U	UG/G	1.00E+01	1.00E+01	0.2488 G	1/28/2013 18:58	3028034 46DQ	MX0T1AA
J1RCP2	SOIL CS	7440-22-4	Ag	-6.45E+02 U	UG/G	1.01E+00	5.10E+02	0.248 G	1/28/2013 19:19	3028034 46DQ	MX0T1AA
J1RCP2	SOIL CS	7440-38-3	As	7.73E+00 U	UG/G	1.01E+01	7.80E+01	0.248 G	1/28/2013 19:19	3028034 46DQ	MX0T1AA
J1RCP2	SOIL CS	7440-38-3	Ba	7.04E+01	UG/G	2.01E+00	2.02E+00	0.248 G	1/28/2013 19:19	3028034 46DQ	MX0T1AA
J1RCP2	SOIL CS	7440-41-7	Beryllium	2.29E+01	UG/G	1.01E+01	1.01E+01	0.248 G	1/28/2013 19:19	3028034 46DQ	MX0T1AA
J1RCP2	SOIL CS	7440-43-9	Cadmium	1.24E+01 U	UG/G	2.02E+00	2.02E+00	0.248 G	1/28/2013 19:19	3028034 46DQ	MX0T1AA
J1RCP2	SOIL CS	7440-47-3	Chromium	8.29E+00 U	UG/G	1.01E+01	1.01E+01	0.248 G	1/28/2013 19:19	3028034 46DQ	MX0T1AA
J1RCP2	SOIL CS	7439-92-1	Lead	3.24E+00 U	UG/G	1.01E+01	1.01E+01	0.248 G	1/28/2013 19:19	3028034 46DQ	MX0T1AA
J1RCP2	SOIL CS	7782-49-2	Se	-1.58E+01 U	UG/G	1.01E+01	9.92E+00	0.248 G	1/28/2013 19:19	3028034 46DQ	MX0T1AA
J1RCP3	SOIL CS	7440-22-4	Ag	9.99E+01 U	UG/G	9.92E+00	9.92E+00	0.2519 G	1/28/2013 19:35	3028034 46DQ	MX0T1AA
J1RCP3	SOIL CS	7440-38-2	As	6.48E+01	UG/G	9.98E+00	9.98E+00	0.2519 G	1/28/2013 19:35	3028034 46DQ	MX0T1AA
J1RCP3	SOIL CS	7440-38-3	Ba	7.44E+01	UG/G	9.98E+00	9.98E+00	0.2519 G	1/28/2013 19:35	3028034 46DQ	MX0T1AA
J1RCP3	SOIL CS	7440-41-7	Beryllium	1.82E+01	UG/G	9.92E+02	9.92E+02	0.2519 G	1/28/2013 19:35	3028034 46DQ	MX0T1AA
J1RCP3	SOIL CS	7440-43-9	Cadmium	7.08E+00 U	UG/G	1.01E+01	1.01E+01	0.2519 G	1/28/2013 19:35	3028034 46DQ	MX0T1AA
J1RCP3	SOIL CS	7440-47-3	Chromium	2.14E+00 U	UG/G	9.92E+00	9.92E+00	0.2519 G	1/28/2013 19:35	3028034 46DQ	MX0T1AA
J1RCP3	SOIL CS	7782-49-2	Se	-4.87E+01 U	UG/G	9.98E+00	9.98E+00	0.2519 G	1/28/2013 19:35	3028034 46DQ	MX0T1AA
J1RCP4	SOIL CS	7440-22-4	Ag	1.79E+01 U	UG/G	9.98E+00	9.98E+00	0.2504 G	1/28/2013 19:45	3028034 46DQ	MX0T1AA
J1RCP4	SOIL CS	7440-38-2	As	9.22E+01 U	UG/G	9.98E+00	9.98E+00	0.2504 G	1/28/2013 19:45	3028034 46DQ	MX0T1AA
J1RCP4	SOIL CS	7440-38-3	Ba	8.88E+01 U	UG/G	2.00E+00	2.00E+00	0.2504 G	1/28/2013 19:45	3028034 46DQ	MX0T1AA
J1RCP4	SOIL CS	7440-41-7	Beryllium	1.87E+01 U	UG/G	9.98E+00	9.98E+00	0.2504 G	1/28/2013 19:45	3028034 46DQ	MX0T1AA
J1RCP4	SOIL CS	7440-43-9	Cadmium	1.06E+01 U	UG/G	2.00E+00	2.00E+00	0.2504 G	1/28/2013 19:45	3028034 46DQ	MX0T1AA
J1RCP4	SOIL CS	7440-47-3	Chromium	5.65E+00 U	UG/G	9.98E+00	9.98E+00	0.2504 G	1/28/2013 19:45	3028034 46DQ	MX0T1AA
J1RCP4	SOIL CS	7439-92-1	Lead	3.02E+00 U	UG/G	9.98E+00	9.98E+00	0.2504 G	1/28/2013 19:45	3028034 46DQ	MX0T1AA
J1RCP4	SOIL CS	7782-49-2	Se	-9.22E+01 U	UG/G	9.98E+00	9.98E+00	0.2504 G	1/28/2013 19:45	3028034 46DQ	MX0T1AA
J1RCP5	SOIL CS	7440-22-4	Ag	8.88E+01 U	UG/G	1.00E+00	1.00E+00	0.2504 G	1/28/2013 19:55	3028034 46DQ	MX0T1AA
J1RCP5	SOIL CS	7440-38-2	As	1.87E+01 U	UG/G	9.98E+00	9.98E+00	0.2504 G	1/28/2013 19:55	3028034 46DQ	MX0T1AA
J1RCP5	SOIL CS	7440-38-3	Ba	6.48E+01	UG/G	2.00E+00	2.00E+00	0.2504 G	1/28/2013 19:55	3028034 46DQ	MX0T1AA
J1RCP5	SOIL CS	7440-41-7	Beryllium	1.74E+01 U	UG/G	9.98E+02	9.98E+02	0.2504 G	1/28/2013 19:55	3028034 46DQ	MX0T1AA
J1RCP5	SOIL CS	7440-43-9	Cadmium	1.01E+01 U	UG/G	2.00E+00	2.00E+00	0.2504 G	1/28/2013 19:55	3028034 46DQ	MX0T1AA
J1RCP5	SOIL CS	7439-92-1	Lead	5.13E+01	UG/G	1.01E+01	1.01E+01	0.2504 G	1/28/2013 19:55	3028034 46DQ	MX0T1AA
J1RCP5	SOIL CS	7782-49-2	Se	-1.33E+01 U	UG/G	1.01E+01	1.01E+01	0.2504 G	1/28/2013 19:55	3028034 46DQ	MX0T1AA
J1RCP6	SOIL CS	7440-41-7	Beryllium	1.88E+00 U	UG/G	1.01E+01	1.01E+01	0.2487 G	1/28/2013 19:55	3028034 46DQ	MX0T1AA
J1RCP6	SOIL CS	7440-43-9	Cadmium	1.24E+01 U	UG/G	2.01E+00	2.01E+00	0.2487 G	1/28/2013 19:55	3028034 46DQ	MX0T1AA
J1RCP6	SOIL CS	7439-92-1	Lead	5.68E+00 U	UG/G	1.01E+01	1.01E+01	0.2487 G	1/28/2013 19:55	3028034 46DQ	MX0T1AA
J1RCP6	SOIL CS	7440-22-4	Ag	-2.27E+01 U	UG/G	1.01E+01	1.01E+01	0.2487 G	1/28/2013 19:55	3028034 46DQ	MX0T1AA
J1RCP6	SOIL CS	7440-38-2	As	1.01E+01 U	UG/G	1.01E+01	1.01E+01	0.2487 G	1/28/2013 19:55	3028034 46DQ	MX0T1AA
J1RCP6	SOIL CS	7440-38-3	Ba	6.13E+01	UG/G	2.01E+00	2.01E+00	0.2487 G	1/28/2013 19:55	3028034 46DQ	MX0T1AA
J1RCP6	SOIL CS	7440-41-7	Beryllium	1.01E+01 U	UG/G	1.01E+01	1.01E+01	0.2487 G	1/28/2013 19:55	3028034 46DQ	MX0T1AA
J1RCP6	SOIL CS	7439-92-1	Lead	5.98E+00 U	UG/G	2.01E+00	2.01E+00	0.2487 G	1/28/2013 19:55	3028034 46DQ	MX0T1AA
J1RCP6	SOIL CS	7440-47-3	Chromium	1.27E+01 U	UG/G	1.01E+01	1.01E+01	0.2487 G	1/28/2013 19:55	3028034 46DQ	MX0T1AA
J1RCP6	SOIL CS	7440-47-3	Lead	6.24E+00 U	UG/G	1.01E+01	1.01E+01	0.2487 G	1/28/2013 19:55	3028034 46DQ	MX0T1AA
J1RCP6	SOIL CS	7439-92-1	Se	-7.48E+01 U	UG/G	1.01E+01	1.01E+01	0.2487 G	1/28/2013 19:55	3028034 46DQ	MX0T1AA
J1RCP6	SOIL CS	7782-49-2	Se	-5.98E+02 U	UG/G	1.00E+01	1.00E+01	0.2487 G	1/28/2013 19:55	3028034 46DQ	MX0T1AA
J1RCP6	SOIL CS	7440-22-4	Ag	1.00E+00 U	UG/G	2.00E+00	2.00E+00	0.2487 G	1/28/2013 19:55	3028034 46DQ	MX0T1AA
J1RCP6	SOIL CS	7440-38-2	As	1.00E+00 U	UG/G	2.00E+00	2.00E+00	0.2487 G	1/28/2013 19:55	3028034 46DQ	MX0T1AA
J1RCP6	SOIL CS	7440-38-3	Ba	5.94E+01	UG/G	2.00E+00	2.00E+00	0.2487 G	1/28/2013 19:55	3028034 46DQ	MX0T1AA



Client_id	Result_Cas_nbr	Parameter	Result	Qualifier	Units	Reporting_Limits_Sampling	Reporting_Limits_Analytical	Uncertainty_1s	Analyzed	Decision_Level_LC	LCSRockAddition	Analysis_date_time	Batch_nbr	Test_MetLab_sample_id
Matrix	SOIL CS 7439-92-1	Lead	2.50E+00	U	UGG	1.01E+01	1.01E+01	1.00E-01	0.2487 G	8.53E-02		12/26/2013 21:02	30280344 46DQ	MX0V1JAA
JRCV5	SOIL CS 7782-49-2	Se	-7.47E-01	U	UGG	1.01E+01	1.01E+01	1.60E-01	0.2487 G	1.28E-01		12/26/2013 21:02	30280344 46DQ	MX0V1JAA
JRCV6	SOIL CS 7440-22-4	Ag	-1.15E-01	U	UGG	1.00E+01	1.00E+01	4.70E-01	0.249 G	8.90E-02		12/26/2013 21:06	30280344 46DQ	MX0V1JAA
JRCV6	SOIL CS 7440-38-2	As	1.03E+00	U	UGG	2.01E+00	2.01E+00	1.50E-01	0.249 G	3.90E-01		12/26/2013 21:06	30280344 46DQ	MX0V1JAA
JRCV6	SOIL CS 7440-39-3	Ba	5.38E+01	U	UGG	1.00E+01	1.00E+01	1.50E-01	0.249 G	1.27E-01		12/26/2013 21:06	30280344 46DQ	MX0V1JAA
JRCV6	SOIL CS 7440-41-7	Beryllium	1.95E-01	U	UGG	2.01E+00	2.01E+00	4.00E-02	0.249 G	3.37E-03		12/26/2013 21:06	30280344 46DQ	MX0V1JAA
JRCV6	SOIL CS 7440-43-9	Cadmium	3.45E+01	U	UGG	1.00E+01	1.00E+01	1.90E-01	0.249 G	3.30E-02		12/26/2013 21:06	30280344 46DQ	MX0V1JAA
JRCV6	SOIL CS 7440-47-3	Chromium	8.75E+00	U	UGG	1.00E+01	1.00E+01	3.50E+01	0.249 G	2.88E-01		12/26/2013 21:06	30280344 46DQ	MX0V1JAA
JRCV6	SOIL CS 7439-92-1	Lead	2.38E+00	U	UGG	1.00E+01	1.00E+01	5.70E-01	0.249 G	7.42E-01		12/26/2013 21:06	30280344 46DQ	MX0V1JAA
JRCV6	SOIL CS 7782-49-2	Se	-7.95E-01	U	UGG	1.00E+01	1.00E+01	2.10E-01	0.249 G	1.65E-01		12/26/2013 21:06	30280344 46DQ	MX0V1JAA
JRCV7	SOIL CS 7440-22-4	Ag	-1.76E-01	U	UGG	9.98E+00	9.98E+00	6.70E-01	0.2502 G	5.49E-01		12/26/2013 21:11	30280344 46DQ	MX0V1JAA
JRCV7	SOIL CS 7440-38-2	As	1.55E+00	U	UGG	9.98E+00	9.98E+00	2.00E+00	0.249 G	3.30E-02		12/26/2013 21:11	30280344 46DQ	MX0V1JAA
JRCV7	SOIL CS 7440-39-3	Ba	6.65E+01	U	UGG	2.00E+00	2.00E+00	9.39E-02	0.249 G	6.12E-03		12/26/2013 21:11	30280344 46DQ	MX0V1JAA
JRCV7	SOIL CS 7440-41-7	Beryllium	2.12E+01	U	UGG	2.00E+00	2.00E+00	2.10E+02	0.2502 G	1.70E-02		12/26/2013 21:11	30280344 46DQ	MX0V1JAA
JRCV7	SOIL CS 7440-43-9	Cadmium	3.33E+01	U	UGG	2.00E+00	2.00E+00	9.99E+00	0.2502 G	8.38E-02		12/26/2013 21:11	30280344 46DQ	MX0V1JAA
JRCV7	SOIL CS 7440-47-3	Chromium	7.48E+00	U	UGG	9.98E+00	9.98E+00	1.00E+00	0.2502 G	8.61E-02		12/26/2013 21:11	30280344 46DQ	MX0V1JAA
JRCV7	SOIL CS 7439-92-1	Lead	3.43E+00	U	UGG	9.98E+00	9.98E+00	1.00E+00	0.2502 G	8.61E-02		12/26/2013 21:11	30280344 46DQ	MX0V1JAA
JRCV7	SOIL CS 7782-49-2	Se	-5.98E-01	U	UGG	9.98E+00	9.98E+00	5.00E+02	0.2502 G	6.10E-01		12/26/2013 21:11	30280344 46DQ	MX0V1JAA
INTRA-LAB BLANK	SOIL BLK 7440-22-4	Ag	8.29E+04	U	MGL	5.00E+02	5.00E+02	1.00E+03	0.2602 G	3.10E-04		12/26/2013 18:44	30280344 46DQ	MX0W1JAA
INTRA-LAB BLANK	SOIL BLK 7440-38-2	As	-3.96E+04	U	MGL	5.00E+02	5.00E+02	1.00E+03	0.2602 G	3.10E-04		12/26/2013 18:44	30280344 46DQ	MX0W1JAA
INTRA-LAB BLANK	SOIL BLK 7440-39-3	Ba	1.93E+04	U	MGL	5.00E+02	5.00E+02	1.00E+03	0.2602 G	4.51E-04		12/26/2013 18:44	30280344 46DQ	MX0W1JAA
INTRA-LAB BLANK	SOIL BLK 7440-41-7	Beryllium	3.37E+05	U	MGL	5.00E+04	5.00E+04	5.10E+05	0.2602 G	4.17E-05		12/26/2013 18:44	30280344 46DQ	MX0W1JAA
INTRA-LAB BLANK	SOIL BLK 7440-43-9	Cadmium	1.80E+04	U	MGL	1.00E+02	1.00E+02	1.80E+04	0.2602 G	1.52E-04		12/26/2013 18:44	30280344 46DQ	MX0W1JAA
INTRA-LAB BLANK	SOIL BLK 7440-47-3	Chromium	2.84E+05	U	MGL	5.00E+02	5.00E+02	5.10E+04	0.2602 G	4.23E-04		12/26/2013 18:44	30280344 46DQ	MX0W1JAA
INTRA-LAB BLANK	SOIL BLK 7439-92-1	Lead	-5.65E+04	U	MGL	5.00E+02	5.00E+02	1.00E+03	0.2602 G	8.53E-04		12/26/2013 18:44	30280344 46DQ	MX0W1JAA
INTRA-LAB BLANK	SOIL BLK 7782-49-2	Se	-1.94E+03	U	MGL	5.00E+02	5.00E+02	2.70E+03	0.2602 G	2.29E-03		12/26/2013 18:44	30280344 46DQ	MX0W1JAA
INTRA-LAB BLANK	SOIL LGS 7440-22-4	Ag	9.36E+01	U	MGL	5.00E+02	5.00E+02	4.10E+03	0.2602 G	3.40E-03		12/26/2013 18:44	30280344 46DQ	MX0W1JAA
INTRA-LAB BLANK	SOIL LGS 7440-38-2	As	9.13E+01	U	MGL	5.00E+02	5.00E+02	4.50E+03	0.2602 G	3.67E-03		12/26/2013 18:44	30280344 46DQ	MX0W1JAA
INTRA-LAB BLANK	SOIL LGS 7440-39-3	Ba	9.78E+01	U	MGL	1.00E+02	1.00E+02	9.00E+02	0.2602 G	7.38E-03		12/26/2013 18:44	30280344 46DQ	MX0W1JAA
INTRA-LAB BLANK	SOIL LGS 7440-41-7	Beryllium	9.26E+01	U	MGL	5.00E+02	5.00E+02	5.00E+02	0.2602 G	3.48E-03		12/26/2013 18:44	30280344 46DQ	MX0W1JAA
INTRA-LAB BLANK	SOIL LGS 7440-43-9	Cadmium	8.96E+01	U	MGL	1.00E+02	1.00E+02	1.10E+03	0.2602 G	9.21E-04		12/26/2013 18:44	30280344 46DQ	MX0W1JAA
INTRA-LAB BLANK	SOIL LGS 7440-47-3	Chromium	9.44E+01	U	MGL	5.00E+02	5.00E+02	5.00E+02	0.2602 G	3.14E-03		12/26/2013 18:44	30280344 46DQ	MX0W1JAA
INTRA-LAB BLANK	SOIL LGS 7439-92-1	Lead	9.28E+01	U	MGL	5.00E+02	5.00E+02	3.00E+03	0.2602 G	2.44E-03		12/26/2013 18:44	30280344 46DQ	MX0W1JAA
INTRA-LAB CHECK	SOIL LGS 7782-49-2	Se	-3.39E+02	U	UGG	8.38E+01	8.38E+01	1.00E+01	0.2497 G	6.60E-03		12/26/2013 18:44	30280344 46DQ	MX0R1JAD
INTRA-LAB CHECK	SOIL DUP 7440-22-4	Ag	1.53E+00	U	UGG	1.00E+01	1.00E+01	2.10E-01	0.2497 G	1.45E-01		12/26/2013 18:44	30280344 46DQ	MX0R1JAD
INTRA-LAB CHECK	SOIL DUP 7440-38-2	Ba	7.31E+00	U	UGG	1.00E+01	1.00E+01	2.00E+00	0.2497 G	3.48E-01		12/26/2013 18:44	30280344 46DQ	MX0R1JAD
INTRA-LAB CHECK	SOIL DUP 7440-39-3	Beryllium	2.24E+01	U	UGG	1.00E+01	1.00E+01	3.00E+01	0.2497 G	9.04E-01		12/26/2013 18:44	30280344 46DQ	MX0R1JAD
INTRA-LAB CHECK	SOIL DUP 7440-41-7	Cadmium	1.59E+01	U	UGG	2.00E+00	2.00E+00	3.10E+02	0.2497 G	2.44E-03		12/26/2013 18:44	30280344 46DQ	MX0R1JAD
INTRA-LAB CHECK	SOIL DUP 7440-43-9	Chromium	7.55E+00	U	UGG	1.00E+01	1.00E+01	3.20E+02	0.2497 G	2.63E-03		12/26/2013 18:44	30280344 46DQ	MX0R1JAD
INTRA-LAB CHECK	SOIL DUP 7439-92-1	Lead	3.11E+00	U	UGG	1.00E+01	1.00E+01	2.00E+01	0.2497 G	1.66E-01		12/26/2013 18:44	30280344 46DQ	MX0R1JAD
JRCPD DUP	SOIL DUP 7782-49-2	Se	-3.74E+01	U	UGG	1.00E+01	1.00E+01	2.90E+01	0.2497 G	2.41E-01		12/26/2013 18:44	30280344 46DQ	MX0R1JAD
JRCPD DUP	SOIL DUP 7440-39-3	Ba	1.53E+00	U	UGG	1.00E+01	1.00E+01	5.40E+00	0.2497 G	3.48E-01		12/26/2013 18:44	30280344 46DQ	MX0R1JAD
JRCPD DUP	SOIL DUP 7440-41-7	Beryllium	1.79E+01	U	UGG	1.00E+01	1.00E+01	1.10E+03	0.2497 G	8.87E-03		12/26/2013 18:44	30280344 46DQ	MX0R1JAD
JRCPD DUP	SOIL DUP 7440-43-9	Cadmium	1.59E+01	U	UGG	2.00E+00	2.00E+00	3.10E+02	0.2497 G	2.52E-02		12/26/2013 18:44	30280344 46DQ	MX0R1JAD
JRCPD DUP	SOIL DUP 7440-47-3	Chromium	1.78E+01	U	UGG	1.00E+01	1.00E+01	2.90E+02	0.2497 G	1.31E-01		12/26/2013 18:44	30280344 46DQ	MX0R1JAD
JRCPD DUP	SOIL DUP 7439-92-1	Lead	1.72E+01	U	UGG	1.00E+01	1.00E+01	9.20E+00	0.2497 G	7.56E-01		12/26/2013 18:44	30280344 46DQ	MX0R1JAD
JRCPD DUP	SOIL MS 7782-49-2	Se	1.63E+02	% REC	UGG	9.94E+00	9.94E+00	9.20E+01	0.2514 L	3.14E-01	0.3 199	12/26/2013 19:03	30280344 46DQ	MX0R1JAD
JRCPD DUP	SOIL MS 7440-38-2	As	1.82E+02	% REC	UGG	9.94E+00	9.94E+00	1.20E+00	0.2514 L	3.80E-01	0.3 199	12/26/2013 19:03	30280344 46DQ	MX0R1JAD
JRCPD DUP	SOIL MS 7440-39-3	Ba	1.80E+02	% REC	UGG	9.94E+00	9.94E+00	1.01E+01	0.2514 L	2.84E-01	0.3 199	12/26/2013 19:03	30280344 46DQ	MX0R1JAD
JRCPD DUP	SOIL MS 7440-41-7	Beryllium	1.78E+02	% REC	UGG	9.94E+00	9.94E+00	1.01E+01	0.2514 L	2.10E+00	0.3 199	12/26/2013 19:03	30280344 46DQ	MX0R1JAD
JRCPD DUP	SOIL MS 7440-43-9	Cadmium	1.84E+02	% REC	UGG	9.94E+00	9.94E+00	1.99E+00	0.2514 L	1.80E+00	0.3 199	12/26/2013 19:03	30280344 46DQ	MX0R1JAD
JRCPD DUP	SOIL MS 7440-47-3	Chromium	1.75E+02	% REC	UGG	9.94E+00	9.94E+00	2.01E+00	0.2514 L	1.70E+00	0.3 199	12/26/2013 19:03	30280344 46DQ	MX0R1JAD
JRCPD DUP	SOIL MS 7439-92-1	Lead	1.81E+02	% REC	UGG	9.94E+00	9.94E+00	2.01E+00	0.2514 L	2.90E+00	0.3 199	12/26/2013 19:03	30280344 46DQ	MX0R1JAD
JRCPD DUP	SOIL MS 7440-47-3	Chromium	1.81E+02	% REC	UGG	9.94E+00	9.94E+00	1.01E+01	0.2514 L	2.48E+01	0.3 199	12/26/2013 19:03	30280344 46DQ	MX0R1JAD
JRCPD DUP	SOIL MS 7439-92-1	Lead	1.72E+02	% REC	UGG	9.94E+00	9.94E+00	1.01E+01	0.2514 L	2.90E+00	0.3 199	12/26/2013 19:03	30280344 46DQ	MX0R1JAD
JRCPD DUP	SOIL MS 7782-49-2	Se	1.68E+02	% REC	UGG	9.94E+00	9.94E+00	1.01E+01	0.2514 L	2.48E+01	0.3 199	12/26/2013 19:03	30280344 46DQ	MX0R1JAD

2013-29-13  
12/26/2013 19:03

**Richland Laboratory  
Data Review Check List  
Hexavalent Chromium**

Batch Number(s):	3028033	Lab Sample Numbers or SDG:	J01682
Method/Test/Parameter:	Cr+6 <input type="checkbox"/> RL-WC-003(Aqueous) <input checked="" type="checkbox"/> RL-WC-004(Solid)		
Review Item	Yes (✓)	No (✗)	N/A (✗)
<b>A. Initial Calibration</b>			
1. Performed at required frequency with required number of levels?	✓		✗
2. Correlation coefficient greater than 0.97?	✓		✗
3. Initial calibration verification (ICV) analyzed immediately after calibration and results within 10% of expected?	✓		✗
4. Initial calibration blank (ICB) analyzed immediately after ICV and concentrations of all parameters $\leq$ reporting limit?	✓		✗
<b>B. Continuing Calibration</b>			
1. CCV analyzed at required frequency and all parameters within 10% of expected?	✓		✗
2. CCB analyzed at required frequency and all results $\leq$ reporting limit?	✓		✗
<b>C. Sample Analysis</b>			
1. Were any samples with concentrations above the linear range diluted and reanalyzed?		✓	✗
2. Were all sample holding times met?	✓		✗
<b>D. QC Samples</b>			
1. All results for the preparation blank below limits?	✓		✗
2. LCS percent recovery within 85-115%	✓		✗
3. PbCrO <sub>4</sub> percent recovery within 75-125%?	✓		✗
4. Sample and Duplicate within 20% (aqueous) or 35% (solid) RPD?	✓		✗
5. MS or MS/MSD recoveries within 85-115% (aqueous) or 75-125% (solid)?	✓		✗
6. On MS failure, PDMS within 85-115%?		✓	✗
<b>E. Other</b>			
1. Are all nonconformances included and noted?		✓	✗
2. Is the correct date and time of analysis shown?	✓		✗
3. Did the analyst sign and date the front page of the analytical run?	✓		✗
4. Correct methodology used?	✓		✗
5. Transcriptions checked?	✓		✗
6. Calculations checked at minimum frequency?	✓		✗
7. Units checked?	✓		✗

Comments on any "No" response or list NCM number:

Analyst B. P. Hale Date 1/29/13 2<sup>nd</sup> Review RCA Date 1/29/13  
 CG-231 Rev 1 5/12

Lot No., Due Date: J3A280414; 01/29/2013  
 Client, Site: 127642; S00X235B00 HANFORD  
 QC Batch No., Method Test: 3028034; M6010\_S 6010A  
 SDG, Matrix: J01682; SOIL

**1.0 Initial Calibration**

- 1.1 Performed at required frequency with required number of levels? Yes No N/A 2nd ✓  
 1.2 Correlation coefficient within QC limits? Yes No N/A 2nd ✓  
 1.3 Initial calibration verification (ICV) analyzed immediately after calibr. and results within QC limits of +/- 10% at 0.75 ppm? Yes No N/A 2nd ✓  
 1.4 ICB analyzed immediately after ICV and concentration of all parameters +/- report limit from zero? RL per RadCalc. Yes No N/A 2nd ✗

**2.0 Continuing Calibration**

- 2.1 CCV analyzed at required frequency and all parameters within QC limits or +/- 10% at 0.7500 ppm? Yes No N/A 2nd ✓  
 2.2 CCB analyzed at required frequency and all results +/- reporting limit from zero? Yes No N/A 2nd ✗

**3.0 Sample Analysis**

- 3.1 Were any samples with concentration above the linear range diluted and reanalyzed? Yes No N/A 2nd ✗  
 3.2 Were all sample holding times met? Yes No N/A 2nd ✓

**4.0 QC Samples**

- 4.1 All results for the preparation blank < reporting limits? Yes No N/A 2nd ✓  
 4.2 MS or MS/MSD recoveries within 20% at 1 ppm and within 20% RPD (for MSD)? Yes No N/A 2nd ✓  
 4.3 LCS present recovery within 20% at 1 ppm and 20% RPD (for LCSD)? Yes No N/A 2nd ✓  
 4.4 Analytical spikes within QC limits where applicable? Yes No N/A 2nd ✓  
 4.5 ICP only: One serial dilution performed and within 10% of parent per SDG? Yes No N/A 2nd ✓  
 4.6 ICP only: RLV run per batch and within 20% of current values? Yes No N/A 2nd ✓  
 4.7 ICP only: ICSA,ICSAB analyzed at the required frequencies and within 20% of values per dilution record? Yes No N/A 2nd ✓

**5.0 Other**

- 5.1 Are all nonconformances included and noted? Yes No N/A 2nd ✓  
 5.2 Is the correct date and time of analysis shown? Yes No N/A 2nd ✓  
 5.3 Did the analyst sign and date the digestion log for the analytical run? Yes No N/A 2nd ✓  
 5.4 Correct methodology used? Yes No N/A 2nd ✓  
 5.5 Transcriptions checked? Yes No N/A 2nd ✓  
 5.6 Calculations checked at minimum frequency? Yes No N/A 2nd ✓  
 5.7 Units checked? Yes No N/A 2nd ✓  
 5.8 Verified that appropriate data transferred to ReportDB? Yes No N/A 2nd ✗

**6.0 Comments on any 'No' response:**

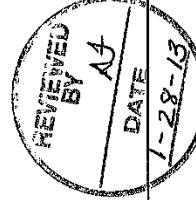
First Level *Philip Bell* Date 1/29/13 Second *R.C.* Date 1/29/13  
 TestAmerica Richland  
 QAS\_RADCALCV4.8.58

Washington Closure Hanford		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST				RC-074-452		Page 2 of 1573	
Collector <i>P. Adell</i>	Company Contact Joan Kessner	Telephone No. 509-375-4688	Project Coordinator JOSEPH KESSNER, JH	Price Code 81	Data Turnaround 25/25 <b>21 Days</b> 24/24	SAF No. RC-074	Method of Shipment Hand Deliver		
Project Designation 100-D/DR Burial Grounds & Remaining Sites - Soil In-Proce	Sample Location 100-D-100 In-Situ BCL 18-30' bgs	Field Logbook No. EL-1607-15	COA 0D1032600						
Ice Chest No. N/A	Offsite Property No. N/A								
Shipped To TestAmerica Incorporated, Richland									
POSSIBLE SAMPLE HAZARDS/REMARKS <i>None</i>									
Special Handling and/or Storage Col 4 Deg C									
<i>JRCP0 NYKOTC 3A280414 3A280414 1-29-13</i>									
Sample No.	Matrix *	Sample Date <i>1/25/13</i>	Sample Time <i>0818</i>	Preservation <i>Cool 4C</i>	Coat 4C				
JIRCP0 NYKOTC	SOIL	<i>0815</i>	<i>✓</i>	<i>✓</i>					
JIRCP1 NYKOTC	SOIL	<i>0814</i>	<i>✓</i>	<i>✓</i>					
JIRCP2 NYKOTC	SOIL	<i>0826</i>	<i>✓</i>	<i>✓</i>					
JIRCP3 NYKOTC	SOIL	<i>0822</i>	<i>✓</i>	<i>✓</i>					
JIRCP4 NYKOTC	SOIL								
Sign/Print Names <i>REVIEWED BY JMB DATE 1-28-13</i>									
SPECIAL INSTRUCTIONS <i>(1) Metals by ICP - 6010 - Quick Turn (Arsenic, Barium, Cadmium, Chromium, Lead, Selenium, Silver)</i>									
Relinquished By/Removed From <i>Mrs. Diane Shabot</i>	Date/Time <i>1/25/13 12:35</i>	Received By/Stored In <i>mShabot</i>	Date/Time <i>1/25/13</i>						
Relinquished By/Removed From <i>mShabot</i>	Date/Time <i>1/25/13</i>	Received By/Stored In <i>*</i>	Date/Time <i>1/25/13 1445</i>						
Relinquished By/Removed From <i>1060 IA</i>	Date/Time <i>1-28-13 0812</i>	Received By/Stored In <i>*</i>	Date/Time <i>1-28-13 0812</i>						
Relinquished By/Removed From <i>A-Freter A-Freter</i>	Date/Time <i>1-28-13 0845</i>	Received By/Stored In <i>S. Schrock Titled 1-28-13 US45</i>	Date/Time <i>1-28-13 0845</i>						
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time						
LABORATORY SECTION	Received By								
FINAL SAMPLE DISPOSITION	Disposal Method								

12513  
1253  
Data Turnaround  
26 hrs  
~~21 Days~~  
25/12/13

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST				RC-074-452		Page <u>3</u> of <u>3</u>
Collector <i>M R. R. J.</i>	Company Contact Joan Kessner	Telephone No. 509-375-4688	Project Coordinator KESSNER, JH	Price Code 8J	SAF No. RC-074	Data Turnaround 26 hrs <del>21 Days</del> 25/12/13
Project Designation 100-D/DR Burial Grounds & Remaining Sites - Soil In-Proce	Sampling Location 100-D-100 In-Situ BCL 18-30' legs					
Ice Chest No. N/A	Field Logbook No. EL-1607-15	COA 0D1032600			Method of Shipment Hand Deliver	
Shipped To TestAmerica Incorporated, Richland	Offsite Property No. N/A			Bill of Lading/Air Bill No. N/A		
POSSIBLE SAMPLE HAZARDS/REMARKS None						
Special Handling and/or Storage Custodial Deg C						
<i>JRA 380414 Due 1-29-13</i>						
Sample No.	Matrix *	Sample Date <i>1/25/13</i>	Sample Time <i>0821</i>	Cool 4C	Cool 4C	
JIRCP5 <del>M XDTJ</del>	SOIL	<i>J</i>	<i>0818</i>	<i>✓</i>	<i>✓</i>	
JIRCP6 <del>M XDTK</del>	SOIL			<i>1-28-13 Ctn 6</i>		
JIRCP7	SOIL					
JIRCP8 <del>M XDYL</del>	SOIL	<i>1/25/13</i>	<i>0833</i>	<i>✓</i>	<i>✓</i>	
JIRCP9 <del>M XSTP</del>	SOIL	<i>V</i>	<i>0832</i>	<i>✓</i>	<i>✓</i>	
SPECIAL INSTRUCTIONS						
Relinquished By/Removed From <i>Barry Randa M</i> Date/Time <i>12:35</i> Received By/Stored In <i>1-25-13</i> <i>mStankovich</i> <i>1/25/13</i>						
Relinquished By/Removed From <del>WCK</del> Date/Time <i>1445</i> Received By/Stored In <i>1/25/13</i> <i>1000/1A</i> <i>1/25/13</i> <i>1445</i>						
Relinquished By/Removed From <i>10601A</i> Date/Time <i>1-28-13 0812</i> Received By/Stored In <i>1-28-13 0845</i> <i>OMM</i> <i>1-28-13 0812</i>						
Relinquished By/Removed From <i>10601A</i> Date/Time <i>1-28-13 0845</i> Received By/Stored In <i>1-28-13 0845</i> <i>5501</i> <i>1-28-13 0845</i>						
Relinquished By/Removed From Date/Time Received By/Stored In Date/Time LABORATORY Received By Title SECTION Disposal Method Date/Time						
FINAL SAMPLE DISPOSITION WCH-EE-011						

Matrix \*  
S=Soil  
SS=Sediment  
SC=Solid  
SR=Sludge  
W=Water  
O=Oil  
A=Air  
DS=Drum Solids  
DL=Drum Liquids  
T=Tissue  
W=Wipe  
L=Liquid  
V=Vegetation  
X=Other



Disposed By

Date/Time

WCH-EE-011

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST						RC-074-452	Page <u>4</u> of <u>3</u>
Collector <b>M2R.0011</b>	Project Contact Joan Kessner	Telephone No. 509-375-4688	Project Coordinator LESSNER, JH	Price Code <b>8J</b>	Data Turnaround <b>24 Hrs</b>		
Project Designation 100-D/DR Burial Grounds & Remaining Sites - Soil In-Proce	Sampling Location 100-D-100 In-Situ BCL 18-30' bgs	SAF No. RC-074					
Ice Chest No. N/A	Field Logbook No. EL-607-15	COA 0D1032600	Method of Shipment Hand Deliver				
Shipped To TestAmerica Incorporated, Richland	Offsite Property No. N/A		Bill of Lading/Air Bill No. N/A				
POSSIBLE SAMPLE HAZARDS/REMARKS <i>None</i>		Preservation Cool 4C	Cool 4C				
Special Handling and/or Storage <i>Cool + Deg C</i>		Type of Container G/P	G/P				
		No. of Container(s) 1	1				
		Volume 125mL	125mL				
<b>J1RCR0 M XDT</b>		See Item(1) in Special Instructions.	Chromium Hex - 7196 - Quick Turn (Hexavalent Chromium)				
<b>J1RCR1 M XDTW</b>							
<b>J1RCR2 M XDT1</b>							
<b>J1RCR3 M XDT3</b>							
<b>J1RCR4 M XDT5</b>							
<b>S014822</b> <i>Date 1-29-13</i>		<b>SAMPLE ANALYSIS</b>					
Sample No.	Matrix*	Sample Date <b>1/25/13</b>	Sample Time <b>0828</b>				
J1RCR0 M XDT	SOIL	<b>0850</b>	<b>—</b>				
J1RCR1 M XDTW	SOIL	<b>0845</b>	<b>—</b>				
J1RCR2 M XDT1	SOIL	<b>0839</b>	<b>—</b>				
J1RCR3 M XDT3	SOIL	<b>0838</b>	<b>—</b>				
J1RCR4 M XDT5	SOIL						
<b>SPECIAL INSTRUCTIONS</b>							
CHAIN OF POSSESSION		Sign/Print Names					
Relinquished By/Removed From <b>M2R.0011</b>	Date/Time <b>1-25-13</b>	Received By/Stored In <b>m2R.0011</b>	Date/Time <b>1-25-13</b>	Date/Time <b>1233</b>			
Relinquished By/Removed From <b>m2R.0011</b>	Date/Time <b>1-25-13</b>	Received By/Stored In <b>m2R.0011</b>	Date/Time <b>1-25-13</b>	Date/Time <b>1445</b>			
Relinquished By/Removed From <b>J1RCR0 M XDT</b>	Date/Time <b>1-25-13</b>	Received By/Stored In <b>A. Fischer A. Fischer</b>	Date/Time <b>1-25-13</b>	Date/Time <b>0812</b>			
Relinquished By/Removed From <b>A. Fischer A. Fischer</b>	Date/Time <b>1-28-13 0812</b>	Received By/Stored In <b>J. Slocum J. Slocum</b>	Date/Time <b>1-28-13 0845</b>	Date/Time <b>0813</b>			
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time	Date/Time <b>1238-130845</b>			
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time	Date/Time <b>1238-130845</b>			
LABORATORY SECTION	Received By		Date/Time	Title			
FINAL SAMPLE DISPOSITION	Disposal Method		Date/Time	Disposed By			

WCH-EE-011

1/25/13

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST				RC-074-455		Page 1 of 22
Collector	Company Contact	Telephone No.	Project Coordinator	Price Code	8L	Data Turnaround 1/25/13 21 Days 25/13
Project Designation 100-DDR Burial Grounds & Remaining Sites - Soil In-Proce	Samline Location 100-D-100 In-Situ Potential ACL 18-30' bgs	Joan Kessner 509-375-4688	KESSNER, JH SAF No. RC-074			
Ice Chest No. N/A	Field Logbook No. EL-1607-15	COA 0D1032600	Method of Shipment Hand Deliver			
Shipped To TestAmerica Incorporated, Richland	Offsite Property No. N/A		Bill of Lading/Air Bill No. N/A			
POSSIBLE SAMPLE HAZARDS/REMARKS None						
Special Handling and/or Storage Cool 4 Deg C						
J1RCV2 M NTS J1RCV3 M NDS J1RCV4 M XONE J1RCV5 M XONIS J1RCV6 M XONIS						
SAMPLE ANALYSIS Duo1-29-13						
Sample No.	Matrix *	Sample Date	Sample Time			
J1RCV2 M NTS	SOIL	1/25/13	0852	✓	✓	
J1RCV3 M NDS	SOIL		0858	—	—	
J1RCV4 M XONE	SOIL		0900	✓	—	
J1RCV5 M XONIS	SOIL		0902	✓	—	
J1RCV6 M XONIS	SOIL		0913	✓	✓	
SPECIAL INSTRUCTIONS						
Relinquished By/Removed From <i>John R. Feller</i>	Date/Time 1-25-13	Received By/Stored In <i>John R. Feller</i>	Date/Time 1-25-13	(1) Metals by ICP - 6010 - Quick Turn (Arsenic, Barium, Cadmium, Chromium, Lead, Selenium, Silver)		
Relinquished By/Removed From <del>1060-1A</del> <i>John R. Feller</i>	Date/Time 1-25-13	Received By/Stored In <i>John R. Feller</i>	Date/Time 1-25-13	* Custodian unavailable to remove samples from controlled storage. Shipper removed samples, taking custody for shipment to lab.		
Relinquished By/Removed From 1060-1A <i>A. Freier</i>	Date/Time 1-28-13 0753	Received By/Stored In <i>A. Freier</i>	Date/Time 1-28-13 0753			
Relinquished By/Removed From <del>1060-1A</del> <i>A. Freier</i>	Date/Time 1-28-13 0845	Received By/Stored In <i>A. Freier</i>	Date/Time 1-28-13 0845			
Relinquished By/Removed From LABORATORY SECTION	Date/Time	Received By/Stored In	Date/Time			
FINAL SAMPLE DISPOSITION	Disposal Method			Disposed By		



S=Soil  
SS=Soil  
SO=Solid  
SR=Sludge  
W=Water  
O=Oil  
A=Air  
DS=Dust Solids  
DL=Dust Liquids  
T=Tissue  
W=Wire  
L=Liquid  
V=Vegetation  
X=Other

1/26/13

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST						RC-074-455	Page 2 of 2
Collector <i>M R Richter</i> m Richter 1/25/13	Company Contact Joan Kessner	Telephone No. 509-375-4588	Project Coordinator KESSNER, JH.	Price Code 8L	SAF No. RC-074	Data Turnaround 21 Days 24 hrs	
Project Destination 100-D/DR Burial Grounds & Remaining Sites - Soil In-Proc	Sampling Location 100-D-100 In-Situ Potential ACL 18-30' bgs	Field Logbook No. EL-1607-15	COA OD10032600	Method of Shipment Hand Deliver			
Ice Chest No. N/A	Offsite Property No. N/A	Bill of Lading/Air Bill No. N/A					
POSSIBLE SAMPLE HAZARDS/REMARKS None							
Special Handling and/or Storage Cool 4 Deg C							
<i>J3A380414</i>							
<i>J01622</i> D-21-29-13 SAMPLE ANALYSIS							
Sample No.	Matrix *	Sample Date	Sample Time				
J1RCV7 <del>M SOIL</del>	SOIL	1/25/13	0906				
J1RCV8	SOIL						
<del>J1RCV9</del>	<del>SOIL</del>						
<del>J1RCW0</del>	<del>SOIL</del>						
J1RCW1	SOIL						
CHAIN OF POSSESSION 1/25/13 Sign/Print Names						SPECIAL INSTRUCTIONS	
Relinquished By/Removed From <i>M. Lee</i>	Date/Time 1/25/13	Received By/Stored In <i>m stankovich</i>	Date/Time 1/25/13	(1) Metals by ICP - 6010 - Quick Turn {Arsenic, Barium, Cadmium, Chromium, Lead, Selenium, Silver}			
Relinquished By/Removed From <i>m stankovich</i>	Date/Time 1/25/13	Received By/Stored In <i>A. Freier</i>	Date/Time 1/25/13	* Custodian unavailable to remove samples from controlled storage. Shipper removed samples, taking custody for shipment to lab.			
Relinquished By/Removed From <i>A. Freier</i>	Date/Time 1/28/13	Received By/Stored In <i>m stankovich</i>	Date/Time 1/28/13				
Relinquished By/Removed From <i>A. Freier</i>	Date/Time 1/28/13	Received By/Stored In <i>m stankovich</i>	Date/Time 1/28/13				
Relinquished By/Removed From <i>A. Freier</i>	Date/Time 1/28/13	Received By/Stored In <i>m stankovich</i>	Date/Time 1/28/13				
LABORATORY SECTION	Received By	Title					
FINAL SAMPLE DISPOSITION	Disposal Method	Date/Time					

WCH-EE-011

**Sample Check-in List**

Date/Time Received: 1-28-13 | 0845 Container GM Screen Result: (Airlock) 1 Initials B  
Sample GM Screen Result (Sample Receiving) 6 Initials B

Client: WC4 SDG #: 501682 NA [ ] SAF #: RC-074 NA [ ]

Lot Number: J3A280414

Chain of Custody # RC-074-452; 455

Shipping Container ID: Hand de On. NA [ ] Air Bill Number: NA [ ]

Samples received inside shipping container/cooler/box Yes B Continue with 1 through 4. Initial appropriate response.

No [ ] Go to 5, add comment to #16.

1. Custody Seals on shipping container intact? Yes [ ] No [ ] No Custody Seal B [ ]
2. Custody Seals dated and signed? Yes [ ] No [ ] No Custody Seal B [ ]
3. Cooler temperature: 9 °C on Ice NA [ ]
4. Vermiculite/packing materials is NA B [ ] Wet [ ] Dry [ ]

Item 5 through 16 for samples. Initial appropriate response.

5. Chain of Custody record present? Yes [ ] No [ ]
6. Number of samples received (Each sample may contain multiple bottles): 20
7. Containers received: 40x125mlp

8. Sample holding times exceeded? NA [ ] Yes [ ] No B [ ]
9. Samples have:
  - tape
  - custody seals
  - hazard labels
  - appropriate sample labels
10. Matrix:
  - A (FLT, Wipe, Solid, Soil)
  - I (Water)
  - S (Air, Niosh 7400)
  - T (Biological, Ni-63)
11. Samples:
  - are in good condition
  - are broken
  - Other \_\_\_\_\_
  - are leaking
  - have air bubbles (Only for samples requiring no head space)
12. Sample pH appropriate for analysis requested Yes [ ] No [ ] NA B [ ]  
(If acidification is necessary, then document sample ID, initial pH, amount of HNO<sub>3</sub> added and pH after addition on table overleaf)
13. RPL ID # of preservative used : N/A
14. Were any anomalies identified in sample receipt? Yes [ ] No B [ ]
15. Description of anomalies (include sample numbers): NA B [ ]

15. Sample Location, Sample Collector Listed on COC? \* Yes [  ] No [  ]  
\*For documentation only. No corrective action needed.

16. Additional Information: N/A

Client/Courier denied temperature check.

Client/Courier unpack cooler.

Sample Custodian: Julie Beck

Date: 1-28-13

Client Informed on \_\_\_\_\_ by \_\_\_\_\_ Person contacted \_\_\_\_\_

No action necessary; process as is

### Person contacted

Project Manager

Date

LS-023, Rev. 15, 07/11

JZA 280414

2

13

See over for additional information



Sample Preparation/Analysis											Balance Id:
DW Alkaline Digestion by method 3060A EA Chromium, Hexavalent (7196A)											Pipet #:
51 CLIENT: HANFORD											Sep1 DT/Tm Tech:
Sep2 DT/Tm Tech:											Sep2 DT/Tm Tech:
PM, Quote: RW2, 88144											Prep Tech:
Work Ord. Lot, Sample Date	Total Amt/Unit	Total Acidified/Unit	Initial Aliquot Amt/Unit	Adj Aliq Amt (Un-Acidified)	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On   Off (24hr) Circle	CR Analyst, Init/Date
SEQ Batch, Test: None	mg/kg										Comments:
8 MX0TG-1-AC											
J3A280414-5-SAMP											
01/25/2013 08:22					AmtrSec: 2X125MLP						Beta:
9 MX0TJ-1-AC											
J3A280414-6-SAMP											
01/25/2013 08:21					AmtrRec: 2X125MLP						Beta:
10 MX0TK-1-AC											
J3A280414-7-SAMP											
01/25/2013 08:18					AmtrRec: 2X125MLP						Beta:
11 MX0TL-1-AC											
J3A280414-8-SAMP											
01/25/2013 08:33					AmtrRec: 2X125MLP						Beta:
12 MX0TP-1-AC											
J3A280414-9-SAMP											
01/25/2013 08:32					AmtrRec: 2X125MLP						Beta:
13 MX0TR-1-AC											
J3A280414-10-SAMP											
01/25/2013 08:28					AmtrRec: 2X125MLP						Beta:
14 MX0TW-1-AC											
J3A280414-11-SAMP											
01/25/2013 08:50					AmtrRec: 2X125MLP						Beta:
TestAmerica Richland Wa.	Key: In - Initial Amt, fi - Final Amt, di - Diluted Amt, s1 - Sep1, s2 - Sep2 pd - Prep Dt, dc - Date Chg, r - Reference Dt, ec-Enrichment Cell, ct-Cocktailed Added	ISV - Insufficient Volume for Analysis									
		WO Cnt: 14 ICOC v4.8.49									

Sample Preparation/Analysis										
Work Date	Sample ID	Sample Type	mg/kg	PM, Quote: RW2, 88144	Balance Id:	Pipet #:	Sep1 DT/Tm Tech:	Sep2 DT/Tm Tech:	Comments:	
Work Ord. Lot, Sample Date	Total Amt/Unit	Acidified/Unit	Initial Aliquot Amt/Unit	Adj Aliq Amt (Un-Acidified)	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Defector Id	CR Analyst, Init/Date
1/28/2013 11:09:47 AM										
127642, Washington Closure Hanford LLC										
Washington Closure Hanford LLC										
51 CLIENT: HANFORD										
AnalyDueDate: 01/29/2013										
Batch: 3028033	SOIL	mg/kg								
SEQ Batch, Test: None										
15 MX0T1-1-AC										
J3A280414-12-SAMP										
01/25/2013 08:45										
AmfRec: 2X125mL P										
#Containers: 2										
16 MX0T3-1-AC										
J3A280414-13-SAMP										
01/25/2013 08:39										
AmfRec: 2X125mL P										
#Containers: 2										
17 MX0T5-1-AC										
J3A280414-14-SAMP										
01/25/2013 08:38										
AmfRec: 2X125mL P										
#Containers: 2										
18 MX0T8-1-AC										
J3A280414-15-SAMP										
01/25/2013 08:52										
AmfRec: 2X125mL P										
#Containers: 2										
19 MX0V1C-1-AC										
J3A280414-16-SAMP										
01/25/2013 08:58										
AmfRec: 2X125mL P										
#Containers: 2										
20 MX0VE-1-AC										
J3A280414-17-SAMP										
01/25/2013 09:00										
AmfRec: 2X125mL P										
#Containers: 2										
21 MX0V/G-1-AC										
J3A280414-18-SAMP										
01/25/2013 09:02										
AmfRec: 2X125mL P										
#Containers: 2										
TestAmerica	Key: In - Initial Amt, fi - Final Amt, di - Diluted Amt, s1 - Sep1, s2 - Sep2	Page 3	ISV - Insufficient Volume for Analysis	WO Cnt: 21						
Richland Wa.	pd - Prep Dt, dc - Date Chg, r - Reference Dt, ec-Enrichment Cell, ct-Cocktailed Added									ICOC v4.8.49

Sample Preparation/Analysis										Balance Id:
										Pipet #:
										Sep1 DT/Tm Tech:
										Sep2 DT/Tm Tech:
Work Ord. Lot	Total Amt/Unit	Total Acidified/Unit	Initial Aliquot Amt/Unit	Adj Aliq Amt (Un-Acidified)	QC Tracer Prep Date	Tracer Yield	Dish Size	Ppt or Geometry	Count Time Min	Detector Id
Sample Date									(24hr) Circle	CR Analyst, initDate
Batch: 3028033	Soil	mg/kg			PM, Quote: RW2, 88144					Comments: Prep Tech:
SEQ Batch, Test: None										
22 MKWVJ-1-AC										
J3A280414-19-SAMP										
01/25/2013 09:13					AntiRec: 2X 125MLP					
					#Containers: 2					
23 MKVOL-1-AC										
J3A280414-20-SAMP										
01/25/2013 09:06					AntiRec: 2X 125MLP					
					#Containers: 2					
24 MK0WX-1-AA-B										
J3A280000-33-BLK										
01/28/2013 11:09 pd					AntiRec:					
					#Containers: 1					
25 MK0WX-1-AC-C										
J3A280000-33-LCS										
01/28/2013 11:09 pd					AntiRec:					
					#Containers: 1					
Comments:										
All Clients for Batch:										
127642, Washington Closure Hanford LLC										
Washington Closure Hanford LLC										
AnalyDueDate: 01/29/2013										
Key: In - Initial Amt, fi - Final Amt, di - Diluted Amt, s1 - Sep1, s2 - Sep2										
pd - Prep Dt, dc - Date Chg, r - Reference Dt, ec-Enrichment Cell, ct-Cocktailed Added										
TestAmerica										ISV - Insufficient Volume for Analysis
Richland Wa.										WO Cnt: 25
										ICOC v4.8.49

Sample Preparation/Analysis								Balance Id:					
DW Alkaline Digestion by method 3060A EA Chromium, Hexavalent (7196A)								Pipet #: _____					
51 CLIENT: HANFORD								Sep1 DT/Tm Tech: _____					
								Sep2 DT/Tm Tech: _____					
								Prep Tech: _____					
<b>AnalyDueDate:</b> 01/29/2013	<b>mg/kg</b>												
<b>Batch:</b> 3028033	Total Amt/Unit	Total Acidified/Unit	Initial Aliquot Amt/Unit	Adj Aliq Amt (Un-Acidified)	QC Tracer Prep Date	Tracer Yield	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On   Off (24hr) Circle	CR Analyst, Init/Date	Comments:
SEQ Batch, Test: None	Work Ord, Lot, Sample Date												
<b>MX0NKLAC-LGS:</b>													
MX0R1AC-SAMP Calc Info: Uncert Level (#s): 2	Decay to Sadt: Y	Blk Subt.: N	Sci.Not.: Y	ODRS: B									
MX0R1AL-MS Calc Info: Uncert Level (#s): 2	Decay to Sadt: Y	Blk Subt.: N	Sci.Not.: Y	ODRS: B									
MX0R1CG-MS: Uncert Level (#s): 2	Decay to Sadt: Y	Blk Subt.: N	Sci.Not.: Y	ODRS: B									
MX0NKLAA-BLK: Uncert Level (#s): 2	Decay to Sadt: Y	Blk Subt.: N	Sci.Not.: Y	ODRS: B									
MX0NKLAC-LCS: Uncert Level (#s): 2	Decay to Sadt: Y	Blk Subt.: N	Sci.Not.: Y	ODRS: B									